

APPENDIX A

**GEOLOGIC DRILL LOGS
SB-1 THROUGH SB-16 AND ISS-1**



ERM-EnviroClean, Inc.

Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-1			
SITE Aubrey Manufacturing			COORDINATES N 5002.02; E5643.80		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe						
BEGUN 07-01-96	COMPLETED 07-01-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 6.0'			
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV.TOP CASING	GROUND ELEV. 850.07	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK			
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers					
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
10:05	1.0	2.0			0.8		-8		0.0-0.8': TOPSOIL ; Dark brown, clayey, soft, moist, grass and roots.		
10:10	1.2	2.0		1.0		-2.3	0.8-2.3': SAND ; Dark yellowish orange, moist, fine grained, with pebbles, trace of fines.				
						-3	2.3-3.0': SAND, SILT, AND CLAY ; Small pebbles, moist, light brown.				
10:20	1.8	2.0		1.0		-4.8	3.0-4.8': SAND ; Fine/medium grained, well sorted, 10% small pebbles, moist, light brown. Wet to saturated, moderate yellowish brown, fine grained, 10% small pebbles.				
						5	4.8-6.0': SAND, SILT, AND CLAY ; Light brown, 15% small pebbles, soft to medium firm.				
						-6		End of boring 6 feet below ground surface.			
							10				
							15				



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-2			
SITE Aubrey Manufacturing			COORDINATES N 5093.62; E5643.81		CONTAMINANT SCREENING NOTES HNu with 11.7 eV Probe						
BEGUN 07-01-96	COMPLETED 07-01-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 11.0'			
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 851.08	DEPTH/ELEV. GROUND WATER	DEPTH/ELEV. TOP OF ROCK				
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers					
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
11:00	3.8	4.0			0.0					0.0-2.0': TOPSOIL; Dusky yellowish brown, clayey, slightly moist, soft, roots.	
11:03	4.0	4.0			0.0			5		2.0-11.0': CLAY, SILT, AND SAND; with small pebbles, moist, soft. Light brown, 15% rounded pebbles, soft to medium, moist around pebbles.	
11:12	3.0	3.0			0.6			10		Same as above, fine grained sand seams at 9' and 11' which are 2" thick, wet to moist, moderate yellowish brown, 10% small pebbles.	
								15		End of boring 11 feet below ground surface.	



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-3			
SITE Aubrey Manufacturing			COORDINATES N 5184.79; E5642.73		CONTAMINANT SCREENING NOTES HNu with 11.7 eV Probe						
BEGUN 07-01-96	COMPLETED 07-01-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 8.0'			
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 850.58	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK			
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH				LOGGED BY Gina M. Seegers				
SAMPLES/R.CORE				CONTAMINANT SCREENING							
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations	LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
11:35	2.0	2.0			0.0					0.0-1.0': <u>TOPSOIL</u> ; Dusky yellowish brown, slightly moist, roots.	
11:38	1.0	2.0			0.0					1.0-4.0': <u>SAND, SILT, AND CLAY</u> ; Moderate brown, soft, slightly moist, soft, small pebbles.	
11:46	2.0	2.0			0.0			5		Moist to wet at 4', light brown. 4.0-5.6': <u>CLAYEY SAND AND GRAVEL</u> ; 50% pebbles, moist to wet, light brown.	
11:50	2.0	2.0			0.0					5.6-7.1': <u>SAND, SILT, AND CLAY</u> ; Wet, very soft, trace pebbles, light brown. Saturated, some pebbles. Soft, moist.	
										7.1-7.7': <u>SAND</u> ; Fine grained, saturated, trace of fines.	
										7.7-8.0': <u>SAND, SILT, AND CLAY</u> ; Soft, moist, small pebbles, light brown. End of boring 8 feet below ground surface.	
								15			



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GEOLOGIC DRILL LOG				PROJECT/TASK		PROJECT NUMBER	SHEET NO.	HOLE NUMBER				
SITE				COORDINATES		CONTAMINANT SCREENING NOTES						
Aubrey Manufacturing				N 5366.39; E5639.63		HNu with 11.7 eV Probe						
BEGUN	COMPLETED	DRILLER		DRILLING EQUIPMENT			BORING DIA.	DEPTH (FT)				
07-01-96	07-01-96	On-Site Environmental		Truck-mounted Geoprobe			2	8.0'				
CORE RECOVERY (FT./%)		CORE BOXES	SAMPLES	ELEV.TOP CASING	GROUND ELEV.	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK				
/					851.95							
SAMPLE DEVICE				DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY					
Geoprobe plastic tubing							Gina M. Seegers					
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample #	Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)						
13:00		1.0	2.0			0.0					0.0-2.4': <u>TOPSOIL</u> ; Dusky yellowish brown, slightly moist, roots, soft, clayey.	
13:02		2.0	2.0			0.0		-2.4			2.4-4.0': <u>SAND, SILT, AND CLAY</u> ; With small pebbles, moist to wet around pebbles, light brown, soft.	
13:11		1.7	2.0			0.0		-4			4.0-5.0': <u>SILT AND CLAY</u> ; Dark yellowish brown and light brown, wet, sticky, very soft.	
								-5	5		5.0-6.0': <u>SAND, SILT, AND CLAY</u> ; Same as above.	
13:15		1.0	2.0			0.0		-6			6.0-7.0': <u>SILT AND CLAY</u> ; Wet, as above.	
								-7			7.0-8.0': <u>SAND, SILT, AND CLAY</u> ; Same as above, soft to medium.	
								-8			End of boring 8 feet below ground surface.	
								10				
								15				



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Environmental Resources Management

GEOLOGIC DRILL LOG			PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-6
SITE Aubrey Manufacturing		COORDINATES N 4902.99; E5640.77		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe		
BEGUN 07-01-96	COMPLETED 07-01-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe		DEPTH (FT) 8.0'
CORE RECOVERY (FT.%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING 850.66	DEPTH/ELEV. GROUND WATER	DEPTH/ELEV. TOP OF ROCK
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers

SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations						
	1.0	2.0									0.0-4.0': <u>TOPSOIL</u> : Dusky yellowish brown to light yellowish brown, dry, sandy, clayey near bottom, small pebbles.	
	2.0	2.0									Dusky yellowish brown, clayey, roots, soft, moist.	
	1.0	2.0					-4				4.0-4.6': <u>CLAYEY SAND</u> : Fine grained, wet.	
							-4.6				4.6-6.0': <u>SAND, SILT, AND CLAY</u> : Pale yellowish brown and light brown, soft, moist, 10% small pebbles.	
	2.0	2.0					-6				6.0-6.9': <u>CLAYEY SAND AND GRAVEL</u> : Wet to saturated, dusky yellowish brown and light brown.	
							-6.9				6.9-8.0': <u>SAND, SILT, AND CLAY</u> : As above.	
							-8				End of boring 8 feet below ground surface.	
							10					
							15					



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK		PROJECT NUMBER	SHEET NO.	HOLE NUMBER				
				RCRA Pond Closure		91255JK	1 of 1	SB-7				
SITE			COORDINATES		CONTAMINANT SCREENING NOTES							
Aubrey Manufacturing			N 4919.16; E5652.22		HNU with 11.7 eV Probe							
BEGUN	COMPLETED	DRILLER		DRILLING EQUIPMENT			BORING DIA.	DEPTH (FT)				
07-01-96	07-01-96	On-Site Environmental		Truck-mounted Geoprobe			2	6.0'				
CORE RECOVERY (FT./%)		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV.	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK				
/					850.08							
SAMPLE DEVICE				DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY					
Geoprobe plastic tubing							Gina M. Seegers					
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observ- ations						
	1.5	2.0									0.0-2.9': TOPSOIL ; Moderate yellowish brown, dry, gravelly, sandy.	
	1.2	2.0					-2.9				Dark to dusky yellowish brown, clayey, with roots, rusty coloring, big cinder piece, piece of glass.	
							-3.6				Clayey, with glass.	
	1.5	2.0					5				Clayey, with roots.	
											2.9-3.6': SAND ; Dark yellowish orange, trace clay, gravel, slightly moist.	
											3.6-6.0': PEBBLY SAND ; Moist to wet, trace fines, light brown.	
							-6				End of boring 6 feet below ground surface.	
							10					
							15					



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-8/8A				
SITE Aubrey Manufacturing			COORDINATES N 5274.00; E5690.09		CONTAMINANT SCREENING NOTES HNu with 11.7 eV Probe							
BEGUN 08-26-96	COMPLETED 08-27-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 12.0'				
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 848.96	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK				
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers						
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample #	Time	Recovery (feet)	Length (feet)	Blow Count	RQD (%)	Sample Scan* (Vppm)						
09:30	1.7	2.0				0.0					0.0-1.1': TOPSOIL; Brown, pebbly and sandy, slightly moist. Dusky yellowish brown, clayey, roots, trace sand.	
09:32	1.5	2.0				0.0					1.1-2.4': SANDY SILTY CLAY; Dark to moderate yellowish brown, moist, sandier near bottom.	
09:35	1.8	2.0				0.0					2.4-7.9': GRAVELLY SAND; Moderate yellowish brown, medium to fine grained, gravel is angular to subangular, wet, trace fines. As above, wet to saturated.	
10:04	2.0	2.0									As above.	
10:12	1.5	2.0									7.9-10.0': SAND; Very fine grained, clayey/silty in top 1", light brown to moderate yellowish brown.	
											10.0-12.0': SANDY SILTY CLAY; Pale brown, moist, soft.	
											End of boring 12 feet below ground surface.	



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK		PROJECT NUMBER	SHEET NO.	HOLE NUMBER			
Aubrey Manufacturing				RCRA Pond Closure		91255JK	1 of 1	SB-9			
SITE			COORDINATES		CONTAMINANT SCREENING NOTES						
Aubrey Manufacturing			N 5092.98; E5694.01		HNu with 11.7 eV Probe						
BEGUN	COMPLETED	DRILLER		DRILLING EQUIPMENT			BORING DIA.	DEPTH (FT)			
08-26-96	08-26-96	On-Site Environmental		Truck-mounted Geoprobe			2	10.0'			
CORE RECOVERY (FT./%)		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV.	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK			
/					850.21						
SAMPLE DEVICE				DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY				
Geoprobe plastic tubing							Gina M. Seegers				
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
10:30	2.0	2.0			0.0				0.0-1.5': TOPSOIL ; Dusky yellowish brown, clayey, with roots, slightly moist, grades to dark yellow brown.		
10:33	2.0	2.0			0.0				1.5-3.1': SAND ; Moderate yellowish brown, medium grained, well sorted, slightly moist.		
10:37	1.8	2.0			0.0				3.1-4.0': SANDY SILTY CLAY ; Moderate brown, moist, with 10% small pebbles.		
10:47	2.0	2.0			0.0				4.0-4.9': SAND ; As above, moist to wet at bottom.		
10:52	2.0	2.0			0.0				4.9-6.4': SANDY SILTY CLAY ; Moderate brown, as above, medium stiff, moist. As above, soft.		
									6.4-6.8': SAND ; Moderate yellowish brown, fine grained, well sorted, wet to saturated.		
									6.8-8.8': SANDY SILTY CLAY ; Moderate brown, moist, 10% small pebbles, medium stiff. Increase in sand content.		
									8.8-9.0': SAND ; As above, fine grained, well sorted, trace of fines, wet to saturated.		
									9.0-10.0': SANDY SILTY CLAY ; As above, medium stiff to stiff, moderate brown, moist to slightly moist, 10% gravel. End of boring 10 feet below ground surface.		



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 2	HOLE NUMBER SB-10			
SITE Aubrey Manufacturing			COORDINATES N 4986.01; E5699.85		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe						
BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 20.0'			
CORE RECOVERY (FT.%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 850.89	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK			
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers					
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
11:24	2.0	2.0			0.0		-1.2	0.0-1.2': TOPSOIL: Dusky yellowish brown, clayey, with roots, slightly moist, 10% sand.			
							-2	1.2-2.0': SILT: Moderate yellowish brown, dry, with trace small pebbles.			
11:27	2.0	2.0			0.0		-2.7	2.0-2.7': SAND: Moderate yellowish brown, well sorted, fine grained, slightly moist.			
							5	2.7-20.0': SANDY SILTY CLAY: Pale/light brown, slightly moist, with small gravel, soft.			
11:31	1.6	2.0			0.2			Very soft.			
11:36	1.2	2.0			0.2			Moderate brown, soft to medium soft.			
11:39	1.9	2.0			0.2			Medium stiff.			
11:46	1.9	2.0			0.6		10	Pale brown, stiff, with small pebbles.			
11:51	1.7	2.0			0.0			Same as above.			
11:59	1.8	2.0			0.0		15	Same as above.			



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GEOLOGIC DRILL LOG			PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255JK	SHEET NO. 2 of 2	HOLE NUMBER SB-10
SITE Aubrey Manufacturing		COORDINATES N 4986.01; E5699.85		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe		
BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe		BORING DIA. 2
DEPTH (FT) 20.0'						

Continued

SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
11:59	1.8	2.0			0.0			15			
12:05	1.0	2.0			0.0				Same as above, wet from 16.2-16.25'		
12:16	2.0	2.0			0.0				Same as above, moist at end.		
								-20-20		End of boring 20 feet below ground surface.	
								25			
								30			



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-11	
SITE Aubrey Manufacturing			COORDINATES N 4986.27; E5751.98		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe				
BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 8.0'	
CORE RECOVERY (FT.%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 849.03	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK	
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH				LOGGED BY Gina M. Seegers		
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH		
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RGD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations			
DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure- composition, sorting, texture, moisture facies, odor						DRILLING NOTES water levels, water return, character of drilling, etc.
13:50	2.0	2.0			0.0			0.0-1.5': TOPSOIL ; Dusky yellowish brown, clayey, with roots, slightly moist.	
13:54	2.0	2.0			0.0			1.5-2.0': SILTY CLAYEY SAND ; Moderate yellowish brown, slightly moist, fine grained, well sorted. 2.0-5.5': SAND ; Moderate yellowish brown, well sorted, moist, 10% small pebbles.	
13:57	2.0	2.0			0.0			Same as above, trace large gravel.	
14:00	2.0	2.0			0.0			5.5-6.0': SANDY SILTY CLAY ; Soft, moist, 10 % pebbles. 6.0-7.5': SAND ; Well sorted, medium grained, saturated.	
								7.5-8.0': SANDY SILTY CLAY ; Pale brown, soft to medium.	
								End of boring 8 feet below ground surface.	



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255JK.	SHEET NO. 1 of 2	HOLE NUMBER SB-11D
SITE Aubrey Manufacturing		COORDINATES N 4985.38; E5750.70		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe			
BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe		BORING DIA. 2	DEPTH (FT) 26.0'
CORE RECOVERY (FT./%) /	CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 849.02	DEPTH/ELEV. GROUND WATER	DEPTH/ELEV. TOP OF ROCK	
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers	

SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample #	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
								5		See soil boring log for SB11 for 0-8' description.	
15:50	0.9	2.0			0.0			10		8.0-26.0' SANDY SILTY CLAY: Pale brown, soft, moist, with 5% small pebbles.	
15:58	2.0	2.0			0.0			15		Same as above.	
16:05	1.3	2.0			0.0						
16:15	2.0	2.0									



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Environmental Resources Management

GEOLOGIC DRILL LOG		PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255JK	SHEET NO. 2 of 2	HOLE NUMBER SB-11D
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SITE Aubrey Manufacturing	COORDINATES N 4985.38; E5750.70	CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe
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BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental	DRILLING EQUIPMENT Truck-mounted Geoprobe	BORING DIA. 2	DEPTH (FT) 26.0'
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SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
16:15	2.0	2.0						15		Wet, a bit sandy. Same as above, moist.	
16:25	2.0	2.0			0.0						
16:38	2.0	2.0			0.0						
16:48	1.0	2.0			0.2		20	Slightly wet. Same as above, more crumbly—higher silt content.			
17:00	2.0	2.0								Same as above, very stiff.	
17:14	1.2	2.0			0.8			25			
							-26			End of boring 26 feet below ground surface.	
								30			



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-12					
SITE Aubrey Manufacturing			COORDINATES N 5265.72; E5793.39		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe								
BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 10.0'					
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 847.70	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK					
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers							
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH		DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations	LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.	
14:50	1.0	2.0									0.0-1.0': <u>TOPSOIL</u> : Dusky yellowish brown, clayey, with roots, slightly moist.		
14:52	2.0	2.0									1.0-8.5': <u>SAND</u> : Fine/medium grained, moist to wet, well sorted, 15% gravel which is subangular to subrounded.		
14:56	1.2	2.0						5			Same as above, wet to saturated.		
15:02	1.4	2.0									Same as above.		
15:11	1.0	2.0									8.5-10.0': <u>SANDY SILTY CLAY</u> : Moderate brown, soft to medium stiff, moist.		
								10			End of boring 10 feet below ground surface.		
								15					



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-13				
SITE Aubrey Manufacturing			COORDINATES N 5254.54; E5933.36		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe							
BEGUN 08-26-96	COMPLETED 08-26-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 6.0'				
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 846.66	DEPTH/ELEV. GROUND WATER	DEPTH/ELEV. TOP OF ROCK					
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers						
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RGD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Obser- vations						
17:33	1.0	2.0			0.0						0.0-2.6': TOPSOIL: Dusky yellowish brown, clayey, with roots, trace sand, slightly moist.	
17:35	1.0	2.0			0.0						2.6-6.0': SAND: Dark yellowish orange, fine/medium grained, well sorted, 10% gravel, wet to saturated.	
17:38	2.0	2.0			0.0			5			Same as above, changes to pale yellowish brown	
								10			End of boring 6 feet below ground surface.	
								15				



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK		PROJECT NUMBER	SHEET NO.	HOLE NUMBER			
				RCRA Pond Closure		91255JK	1 of 2	SB-13D			
SITE			COORDINATES		CONTAMINANT SCREENING NOTES						
Aubrey Manufacturing			N 5254.54; E 5933.36		HNU with 11.7 eV Probe						
BEGUN	COMPLETED	DRILLER		DRILLING EQUIPMENT			BORING DIA.	DEPTH (FT)			
08-27-96	08-27-96	On-Site Environmental		Truck-mounted Geoprobe			2	18.0'			
CORE RECOVERY (FT./%)		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV.	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK			
/					846.66						
SAMPLE DEVICE				DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY				
Geoprobe plastic tubing							Gina M. Seegers				
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample #	Time	Recovery (feet)	Length (feet)	Blow Count RCD (%)	Sample Scan** (Vppm)	Headspace** (Vppm)					
										See soil boring log for SB13 for 0-8' description.	
	12:15	1.5	2.0			1.0		-6		8.0-10.0': SAND; Pale yellowish brown, fine grained, wet, with small pebbles.	
	12:20	1.3	2.0			0.6				Coarser grained with more pebbles.	
	12:25	2.0	2.0			0.2		-10	10	10.0-11.0': SAND AND GRAVEL; Subrounded to subangular, wet.	
	12:35	1.6	2.0			0.2		-11		11.0-15.9': SANDY SILTY CLAY; Moderate brown, soft, moist, 10% pebbles.	
	16:45	2.0	2.0			0.8				Pale brown, soft to very soft.	
								15			



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Environmental Resources Management

GEOLOGIC DRILL LOG		PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255JK	SHEET NO. 2 of 2	HOLE NUMBER SB-13D
SITE Aubrey Manufacturing		COORDINATES N 5254.54; E5933.36	CONTAMINANT SCREENING NOTES HNu with 11.7 eV Probe		
BEGUN 08-27-96	COMPLETED 08-27-96	DRILLER On-Site Environmental	DRILLING EQUIPMENT Truck-mounted Geoprobe	BORING DIA. 2	DEPTH (FT) 18.0'

Continued

SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RCD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
16:45	2.0	2.0			0.8		15	[Hatched pattern]	15.9-16.0': SAND; Medium grained, well sorted, wet. 16.0-18.0': SANDY SILTY CLAY; As above, soft.		
16:55	2.0	2.0			2.0	-15.8					
							-18		End of boring 18 feet below ground surface.		
							20				
							25				
							30				



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 2	HOLE NUMBER SB-14				
SITE Aubrey Manufacturing			COORDINATES N 5378.22; E5880.64		CONTAMINANT SCREENING NOTES Hnu with 11.7 eV Probe							
BEGUN 08-27-96	COMPLETED 08-27-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 20.0'				
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 847.04	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK				
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH			LOGGED BY Gina M. Seegers						
SAMPLES/R.CORE				CONTAMINANT SCREENING								
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RQD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations	LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
10:01	0.7	2.0			0.4						0.0-1.5': TOPSOIL ; Dusky yellowish brown, clayey, with roots, moist, trace sand.	
10:04	2.0	2.0			0.2						1.5-10.8': SANDY SILTY CLAY ; Light brown, moist, 15% small pebbles, soft to very soft.	
10:09	2.0	2.0			0.2			5			Same as above.	
10:11	2.0	2.0			0.4						Medium stiff, color change to pale brown.	
10:18	2.0	2.0			0.4			10				
10:27	2.0	2.0			0.4						10.8-10.9': CLAYEY SAND ; Saturated. 10.9-19.1': SANDY SILTY CLAY ; Same as above, stiff.	
10:43	2.0	2.0			1.4							
10:49	0.9	2.0			0.4			15				



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Environmental Resources Management

GEOLOGIC DRILL LOG	PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255JK	SHEET NO. 2 of 2	HOLE NUMBER SB-14
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SITE Aubrey Manufacturing	COORDINATES N 5378.22; E5880.64	CONTAMINANT SCREENING NOTES HNu with 11.7 eV Probe
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BEGUN 08-27-96	COMPLETED 08-27-96	DRILLER On-Site Environmental	DRILLING EQUIPMENT Truck-mounted Geoprobe	BORING DIA. 2	DEPTH (FT) 20.0'
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SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count RBD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations						
10:49	0.9	2.0			0.4			15				
11:07	2.0	2.0			1.2						Increase in silt—more crumbly, moisture surrounding larger pebbles.	
11:18	1.6	2.0			2.2							
								-19.1 -19.3			19.1-19.3': SAND; Well sorted, medium grained sand, pale brown, saturated.	
								-20	20		19.3-20.0': SANDY SILTY CLAY; As above, medium stiff, moist, with pebbles.	
											End of boring 20 feet below ground surface.	
									25			
									30			



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Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-15			
SITE Aubrey Manufacturing			COORDINATES N 4892.01; E5710.84		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe						
BEGUN 08-27-96	COMPLETED 08-27-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 14.0'			
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 849.43	DEPTH/ELEV. GROUND WATER	DEPTH/ELEV. TOP OF ROCK				
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH				LOGGED BY Gina M. Seegers				
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan** (Vppm)	Headspace** (Vppm)	Observations					
13:46	2.0	2.0			0.4					0.0-1.2': <u>TOPSOIL</u> ; Dusky yellowish brown, clayey, with roots, slightly moist.	
13:51	1.8	2.0			0.4					1.2-1.4': <u>SAND</u> ; Moderate yellowish brown, medium grained, well sorted, slightly moist. 1.4-2.0': <u>SOIL</u> ; As above, with gravel and rusty coloring.	
13:54	2.0	2.0			0.6					2.0-8.0': <u>SAND</u> ; Moderate yellowish brown, moderately sorted, wet, medium grained, 15% gravel. Same as above.	
13:55	1.6	2.0			0.6					Same as above, increase in clay at 7.9'.	
14:02	2.0	2.0			1.6					8.0-11.6': <u>SANDY SILTY CLAY</u> ; Pale brown, soft, moist, with pebbles.	
14:10	2.0	2.0			1.2					Same as above.	
14:15	1.5	2.0			2.0					11.6-12.3': <u>SAND</u> ; Same as above.	
										12.3-14.0': <u>SANDY SILTY CLAY</u> ; Pale brown, stiff, slightly moist, with pebbles.	
										End of boring 14 feet below ground surface.	



ERM-EnviroClean, Inc.

Environmental Resources Management

GEOLOGIC DRILL LOG				PROJECT/TASK RCRA Pond Closure		PROJECT NUMBER 91255JK	SHEET NO. 1 of 1	HOLE NUMBER SB-16			
SITE Aubrey Manufacturing			COORDINATES N 5382.22; E5785.58		CONTAMINANT SCREENING NOTES HNU with 11.7 eV Probe						
BEGUN 08-27-96	COMPLETED 08-27-96	DRILLER On-Site Environmental		DRILLING EQUIPMENT Truck-mounted Geoprobe			BORING DIA. 2	DEPTH (FT) 8.0'			
CORE RECOVERY (FT./%) /		CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 848.95	DEPTH/ELEV. GROUND WATER		DEPTH/ELEV. TOP OF ROCK			
SAMPLE DEVICE Geoprobe plastic tubing			DRILL CASING LEFT IN HOLE: DIA./LENGTH				LOGGED BY Gina M. Seegers				
SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
15:15	2.0	2.0			1.0				0.0-1.8': TOPSOIL; Dusky yellowish brown, clayey, with roots, moist.		
15:17	2.0	2.0			1.4			1.8-4.6': SANDY SILTY CLAY; Light brown, with small pebbles, soft, moist.			
15:20	2.0	2.0			1.4			4.6-4.7': SAND; Wet, fine grained, well sorted.			
15:23	1.5	2.0			0.6			4.7-6.0': SANDY SILTY CLAY; Same as above.			
								6.0-6.4': SAND; Wet to saturated, fine/medium grained, well sorted.			
								6.4-8.0': SANDY SILTY CLAY; Light brown, with small pebbles, medium stiff, moist to slightly moist.			
								End of boring 8 feet below ground surface.			



ERM-North Central, Inc.

Environmental Resources Management

GEOLOGIC DRILL LOG			PROJECT/TASK RCRA Pond Closure	PROJECT NUMBER 91255DE	SHEET NO. 1 of 1	HOLE NUMBER ISS-1
SITE Aubrey Manufacturing		COORDINATES Intermittent Stream		CONTAMINANT SCREENING NOTES None		
BEGUN 8/26/96	COMPLETED 8/26/96	DRILLER NA	DRILLING EQUIPMENT NA		BORING DIA. NA	DEPTH (FT) 6.0'
CORE RECOVERY (FT./%) /	CORE BOXES	SAMPLES	ELEV. TOP CASING	GROUND ELEV. 849.48	DEPTH/ELEV. GROUND WATER ▽ 3.98' bgs / 845.50	DEPTH/ELEV. TOP OF ROCK Not Encountered' bgs /
SAMPLE DEVICE			DRILL CASING LEFT IN HOLE: DIA./LENGTH		LOGGED BY John Roberts	

SAMPLES/R.CORE				CONTAMINANT SCREENING			LAYER DEPTH	DEPTH	GRAPHIC LOG SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
Lab Sample # Time	Recovery (feet)	Length (feet)	Blow Count ROD (%)	Sample Scan* (Vppm)	Headspace** (Vppm)	Observations					
		3.0							0.0-3.0': <u>TOPSOIL</u>		
		3.0					-3	▽	3.0-6.0': <u>SAND WITH GRAVEL</u>	Ground water seepage at 3.98 feet below ground surface.	
							5	▽	Bottom of ambient stream at 6 feet below ground surface.		
							-6				